

Environmental Protection Agency

§ 421.106

PSSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten metal produced	
Lead672	.312
Zinc	2.448	1.008
Ammonia (as N)	319.900	140.700

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

PSSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten metal produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000

[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1711, Jan. 21, 1988]

§ 421.106 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary tungsten process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart J—Tungstic Acid Rinse.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead	11.490	5.333
Zinc	41.850	17.230
Ammonia (as N)	5,469.000	2,404.000

(b) Subpart J—Acid Leach Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of tungstic acid (as W) produced	
Lead	1.003	0.466
Zinc	3.653	1.504
Ammonia (as N)	477.400	209.900

(c) Subpart J—Alkali Leach Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of sodium tungstate (as W) produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000

(d) Subpart J—Alkali Leach Wash Condensate.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of sodium tungstate (as W) produced	
Lead	5.372	2.494
Zinc	19.570	8.057
Ammonia (as N)	2,557.000	1,124.000

(e) Subpart J—Ion Exchange Refinate (Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of ammonium tungstate (as W) produced	
Lead	24.780	11.500
Zinc	90.240	37.160
Ammonia (as N)	11,790.000	5,185.000

(f) Subpart J—Ion Exchange Refinate (Not Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of ammonium tungstate (as W) produced	
Lead	24.780	11.500
Zinc	90.240	37.160
Ammonia (as N) ⁽¹⁾	11,790.000	5,185.000

¹ The pretreatment standard for this pollutant does not apply if a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; b) this mother liquor or raffinate is treated by ammonia steam stripping; and c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

(g) Subpart J—Calcium Tungstate Precipitate Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of calcium tungstate (as W) produced	
Lead	20.670	9.594
Zinc	75.280	31.000
Ammonia (as N)	9,838.000	4,325.000

(h) Subpart J—Crystallization and Drying of Ammonium Paratungstate.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of ammonium paratungstate (as W) produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000

(i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of tungstic oxide (as W) produced	
Lead	0.773	0.359
Zinc	2.817	1.160

PSNS—Continued

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
Ammonia (as N)	368.200	161.900

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of tungstic oxide (as W) produced	
Lead	0.018	0.008
Zinc	0.064	0.026
Ammonia (as N)	8.398	3.692

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of tungsten metal produced	
Lead862	.400
Zinc	3.142	1.294
Ammonia (as N)	410.600	180.500

(l) Subpart J—Reduction to Tungsten Water of Formation.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (lb/ million lbs) of tungsten metal produced	
Lead137	.064
Zinc499	.205
Ammonia (as N)	65.190	28.660

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (parts per million) of tungsten metal produced	
Lead672	.312
Zinc	2.448	1.008
Ammonia (as N)	319.900	140.700

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§ 421.112

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (parts per million) of tungsten metal produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000

[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1712, Jan. 21, 1988]

§ 421.107 [Reserved]

Subpart K—Primary Columbium-Tantalum Subcategory

§ 421.110 Applicability: Description of the primary columbium-tantalum subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of columbium or tantalum by primary columbium-tantalum facilities.

[49 FR 8817, Mar. 8, 1984]

§ 421.111 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

[49 FR 8817, Mar. 8, 1984]

§ 421.112 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead	2.612	1.244
Zinc	9.080	3.794
Ammonia (as N)	829.000	364.500
Fluoride	217.700	124.400
Total suspended solids	255.000	121.300
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart K—Solvent Extraction Raffinate.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead	3.888	1.851
Zinc	13.520	5.647
Ammonia (as N)	1,233.000	542.500
Fluoride	324.000	185.100
Total Suspended Solids	379.500	189.500
pH	(¹)	(¹)

AA Within the range of 7.5 to 10.0 at all times.

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead	1.032	.491
Zinc	3.586	1.498
Ammonia (as N)	327.400	143.900
Fluoride	85.960	49.120
Total suspended solids	100.700	47.890
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart K—Precipitation and Filtration.